

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth

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1N4448WX

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Fast Switching Speed
- Ultra Small Surface Mount Package
- For General Purpose Switching Applications
- High Conductance
- Halogen free available upon request by adding suffix "-HF"

High Speed Switching Diode 200mW

Mechanical Data

- Case: SOD-323, Molded Plastic
- Polarity: Indicated by Cathode Band
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking: T5

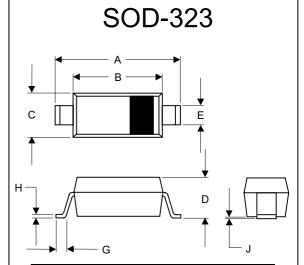
Maximum Ratings @ 25°C Unless Otherwise Specified

Characteristic	Symbol	Value	Unit
Non-Repetitive Peak Reverse Volt.	V _{RM}	100	V
Peak Repetitive Reverse Voltage	V_{RRM}		
Working Peak Reverse Voltage	V_{RWM}	75	V
DC Blocking Voltage	V _R		
RMS Reverse Voltage	V _{R(RMS)}	53	V
Forward Continuous Current(Note1)	I _{FM}	500	mA
Average Rectified Output Current	lo	250	mA
Non-Repetitive Peak @ t=1.0us Forward Surge Current @ t=1.0s	lгsм	4 2	A A
Power Dissipation(Note 1)	Pd	200	mW
Thermal Resistance(Note 1)	$R_{\theta JA}$	625	K/W
Operation/Storage Temp. Range	Тј, Тѕтс	-65 to +150	°C

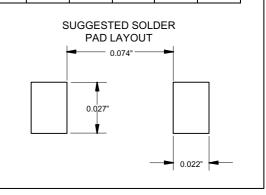
Operation/Storage Temp. Range | Tj, Tstg | -65 to +150 | °C | **Electrical Characteristics @ 25°C Unless Otherwise Specified**

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Charateristic	Symbol	Max	Unit	Test Cond.	
		0.720		I _F =5.0mA	
Maximum Forward	VFM	0.855	V	I _F =10mA	
Voltage Drop		1		I _F =100mA	
		1.25		I _F =150mA	
Maximum Peak Reverse Current	lгм	2.5 50 30 25	μΑ μΑ μΑ nA	V _R =75V V _R =75V Tj=150°C V _R =25V Tj=150°C V _R =20V	
Junction Capacitance	Cj	4	pF	V _R =0V, f=1.0MHz	
Reverse Recovery Time	trr	4	ns	I _F =I _R =10mA, I _{rr} =0.1I _R , R _L =100 OHM	

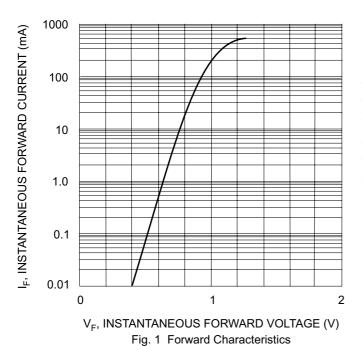
Notes: 1. Valid provided that terminals are kept at ambient temperature

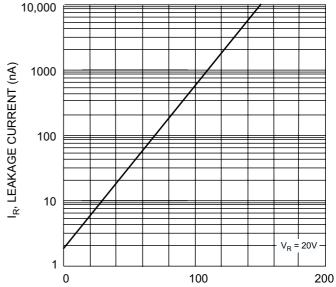


	DIMENSIONS				
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
Α	.090	.107	2.30	2.70	
В	.063	.071	1.60	1.80	
С	.045	.053	1.15	1.35	
D	.031	.045	0.80	1.15	
Е	.010	.016	0.25	0.40	
G	.004	.018	0.10	0.45	
Н	.004	.010	0.10	0.25	
J		.006		0.15	









T_j, JUNCTION TEMPERATURE (°C) Fig. 2 Leakage Current vs Junction Temperature



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Ordering Information:

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

Note: Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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